SUPERCRITICAL CO2 EXTRACTION PUMP

CO2 extraction pump system

Description

High Pressure Equipment Company has developed the e710 supercritical CO2 extraction pump system. This FM certified system features an electric CO2 extraction pump specifically designed for CO2 circulation to recover 100% of the CO2 vapor when used with recovery tank cooling. The e710 offers a small footprint (17.0" x 20.4" base x 58" high) with the electric motor providing quiet operation. HiP's patented pump/drive technology is the industry's first high pressure electric pump system that does not require an air compressor and uses an explosion-proof motor rated for C1D1 areas. The model e710 can provide a continuous 100% duty cycle for 24/7 operation with constant pressure or constant flow control. The system is designed to process liquid condensation without damage and to pull vacuum back through the pump when evacuating a system

Features

Environmentally friendly extraction process
Ideal extraction process for natural oils and foods
FM Certified system supercritical CO2 extraction pump
Positive displacement CO2 extraction pump
Designed specifically for CO2 circulation
Recovers 100% of CO2 vapor when used with recovery tank cooling
Pull vacuum back through the pump when evacuating a system
Passes liquid condensation without damage

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Know How in Flow Control

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e710 ELECTRIC PUMP SYSTEM FEATURES

Explosion-proof motor rated for C1D1 areas
Control technology drives the pump to a constant pressure or flow
Three-phase and single-phase models available
Continuous 100% duty cycle - run 24/7
No air compressor needed
Patented pump drive technology
Stall under pressure without damage
Start against full load and pressure
No driving air used, cannot leak air into the system
Maximum pumping pressure output and/or flow is adjustable
No lubrication in the pump heads; no contamination of product
Compliant with FM and IECEx standards for C1D1 motors
Meets Class 1 Division 1 hazardous area facility requirements (when installed correctly)
PLC control for remote operation

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